

GeDiPNet Cluster 537 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build_cluster_go_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:23:14. · Rows: 15 · Generated: 2026-10-20 00:01:24

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
negative regulation of gene expression	GO:0010629	15	AGT, APOE, APP, CRH, GSK3B, MAPT, NR0B2, PINK1, PSEN1, PICALM, HIF1A, VEGFA	339	74	11.17	3.862e-12	1.617e-9
learning or memory	GO:0007611	8	APP, COMT, CRH, DRD3, MAPT, PSEN1, SLC1A1, PICALM	72	74	28.06	4.005e-10	1.056e-7
positive regulation of amyloid fibril formation	GO:1905908	4	APOE, APP, PSEN1, CLU	5	74	202.02	1.129e-9	2.574e-7
memory	GO:0007613	8	APP, COMT, HTR2A, MAPT, PSEN1, SLC1A1, SLC6A4, TAFA2	87	74	23.22	1.865e-9	3.997e-7
behavioral response to cocaine	GO:0048148	5	DRD2, DRD3, FOSB, HTR2A, SLC6A4	17	74	74.27	5.061e-9	9.705e-7
response to ethanol	GO:0045471	8	CRH, DRD2, DRD3, FOSB, NR0B2, SETD7, CSF3, FGF2	110	74	18.37	1.216e-8	2.091e-6
synapse organization	GO:0050808	7	APP, LAMB2, MAPT, PSEN1, SLC1A1, TSC1, APBB2	72	74	24.55	1.370e-8	2.323e-6
positive regulation of glycolytic process	GO:0045821	5	APP, HTR2A, PSEN1, HIF1A, INS	24	74	52.61	3.402e-8	5.120e-6
response to xenobiotic stimulus	GO:0009410	10	BCHE, COMT, CRH, DRD2, DRD3, FOSB, HTR2A, OTC, SLC1A1, SLC6A4	248	74	10.18	4.824e-8	6.858e-6
regulation of amyloid-beta clearance	GO:1900221	3	APOE, APP, CLU	3	74	252.53	5.961e-8	8.230e-6
visual learning	GO:0008542	6	APP, COMT, DRD2, DRD3, TAFA2, HIF1A	54	74	28.06	6.969e-8	9.413e-6
positive regulation of gene expression	GO:0010628	13	APP, CRH, GSK3B, NR0B2, PSEN1, SLC6A4, SMAD4, CLU, HIF1A, VEGFA, FGF2, INS	504	74	6.51	7.985e-8	1.054e-5
positive regulation of phosphatidylinositol 3-kinase/protein kinase B signal transduction	GO:0051897	9	AGT, APP, GSK3B, IGF2, PINK1, VEGFA, CSF3, FGF2, INS	217	74	10.47	1.870e-7	2.134e-5
response to morphine	GO:0043278	4	DRD2, DRD3, FOSB, SLC1A1	14	74	72.15	2.201e-7	2.448e-5
response to cocaine	GO:0042220	5	CRH, DRD2, DRD3, FOSB, HTR2A	35	74	36.08	2.512e-7	2.743e-5